



"The First in Synthetics"®

**Formulated for Improved
Heavy Duty Performance in Farm
and Industrial Equipment**

PRODUCT DESCRIPTION

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil is the modern lubricant for modern farm and industrial equipment. Engineered specifically to meet the tough applications of heavy-duty, hydraulic-powered operations, AMSOIL Hydraulic/Transmission Oil exceeds the performance requirements of virtually every piece of modern machinery. With its unique blend of synthetic base stocks and advanced additive package, AMSOIL Hydraulic/Transmission Oil provides exceptional lubrication to reduce wear, resist heat, protect against rust and extend fluid and equipment service life.

Remains Stable at Temperature Extremes

AMSOIL Hydraulic/Transmission Oil operates over a wide range of temperatures. AMSOIL Hydraulic/Transmission Oil has a low volatility and high viscosity index to maintain its lubricity at high operating temperatures, and it flows at temperatures as low as -40°F (-40°C) for improved equipment operation and wear protection.

Provides Controlled Seal Swell

AMSOIL Hydraulic/Transmission Oil contains seal swell agents to maintain sealing integrity. It provides a slight seal swell to maintain a secure, tight fit.

Inhibits Rust and Corrosion

AMSOIL Hydraulic/Transmission Oil contains special rust and corrosion inhibitors to protect tractor components against rust and corrosion.

Inhibits Foaming

AMSOIL Hydraulic/Transmission Oil inhibits foaming. Foaming reduces hydraulic oil pressure and diminishes the lubricating protection provided by the oil. AMSOIL Hydraulic/Transmission Oil continues to resist foaming even when the reservoir level is low.

Suppresses Wet Brake Chatter

AMSOIL Hydraulic/Transmission Oil has friction modifier additives that effectively suppress wet brake chatter. When the friction modifier additives are depleted in a conventional

SYNTHETIC TRACTOR HYDRAULIC/TRANSMISSION OIL

ISO 46, SAE 30

hydraulic/transmission oil, an imbalance of pressure occurs in the tractor's brake system and vibrating in the tractor can become uncontrollable. AMSOIL Hydraulic/Transmission Oil remains serviceable for up to three times longer than do conventional oils, and its friction additives remain intact for smooth, continuous tractor operation.

APPLICATION

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil exceeds the hydraulic and transmission fluid performance specifications of the following farm machinery.

Tractors

- Case International - MS-1207, HYTRAN
- Caterpillar - TO-2, TO-3
- Deutz-Allis - All
- Ford - M2C41-B, M2C134-D, M2C86-B
- Hesston/Fiat - All
- John Deere - Quatro[®], J20C, J20D, J14C
- Kubota, UDT - All
- Landini - All
- Massey-Ferguson - M1127-B, M1129-A, M1135 and M1141 (also known as Permatran III[®])
- Steiger - All
- Versatile - All

Transmissions

- Detroit Diesel Allison Division - C-4

Hydraulic Systems

- ABEX/Denison - HF-0, HF-1, HF-1A, HF-2, HF-2A
- Cincinnati Milacron - P-70
- Sundstrand - HMS-103
- Sperry New Holland - 767166, 287530
- Sundstrand Hydraulics, HMS-103

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TYPICAL TECHNICAL PROPERTIES

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil (ATH)

ISO Grade	46	Flash Point °C (°F) (ASTM D-92)	230 (446)
SAE Viscosity	30	Fire Point °C (°F) (ASTM D-92)	242 (468)
Kinematic Viscosity @ 100° C, cST (ASTM D-445)	9.3	Pour Point °C (°F) (ASTM D-97)	-40 (-40)
Kinematic Viscosity @ 40° C, cST (ASTM D-445)	50.1	Four Ball Wear Test (ASTM D-4172/B)	
Viscosity Index (ASTM D-2270).....	171	Scar, mm	0.35

PERFORMANCE DATA

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil exceeds the following rigorous performance requirements.

- Caterpillar Friction Retention Test - Pass
- Denison Pump Test (T5D Vane Pump, 46 Series Piston Pump) - Pass
- Deutz-Allis Friction Retention Test - Pass
Deutz-Allis Turbo Hydra-Matic Oxidation Test - Pass
Deutz-Allis Power Steering Pump Test - Pass
- Ford 7710 IPTO Stall Test - Pass
Ford 7710 Brake Capacity - Pass
Ford 7710 Brake Chatter Test - Pass
- John Deere JDQ-42 PTO Clutch (2000) Cycles - Pass
John Deere JDQ-40 Brake Capacity Test - Pass
John Deere JDQ-40 Brake Torque Variation (Chatter) - Pass
John Deere JDQ-73 Cold Soak @ -35°C - Pass
John Deere JDQ-74 Slow Cool @ -30°C - Pass
John Deere JDQ-74 Slow Cool @ -35°C - Pass
- Massey Ferguson MF-285 PTO Clutch - Pass
Massey Ferguson MF-285 Wet Brake Chatter and Torque Characteristics - Pass
- Plessey-Sundstrand Gear Pump Test - Pass
- Sundstrand Model 22-2132 Variable Displacement Piston Pump - Pass
- Vickers 35VQ-25, Pump Test - Pass

INSTALLATION

AMSOIL Hydraulic/Transmission Oil is fully compatible with conventional hydraulic/transmission oils. To install AMSOIL Hydraulic/Transmission Oil in a hydraulic system, drain the existing hydraulic/transmission oil, change filters and install AMSOIL Hydraulic/Transmission Oil.

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

